COSTAR®

Carbon Monoxide Safety Shutoff Model 9SS

INTALLATION AND OWNER'S MANUAL

PLEASE READ AND SAVE!

9-VOLT BATTERY POWERED

A.G.A Requirements, 2-86

Dear New COSTAR® Model 9SS Owner,

Congratulations as you have taken steps to help insure the health and life safety of you and your family. We are proud to offer you our unique, patented CO Sensor technology that detects CO in a manner similar to the human body's response. The ***COSTAR® 9SS*** *is an ideal and low-cost way of warning you of both the acute and chronic effects of CO poisoning.*

Please read this owner's manual carefully so you will have a better understanding of the effects of CO poisoning and the ***COSTAR® 9SS*** *Detector, as we work together pursuing a safer, healthier air quality for us all.*

To your good health and safety,

Mark Goldstein, Ph.D.
President
Quantum Group Inc.

The CO Safety Shutoff (COSS) is designed to give visual and audible signals and shut your appliance down if carbon monoxide (CO) reaches levels predetermined to be unhealthy or dangerous.

IMPORTANT SAFETY INFORMATION

WHAT SHOULD I DO IF YOU SMELL GAS?

- **Do not try to light any appliance.**
- **Do not touch the electrical switch.**
- **Immediately call your gas supplier from a neighbor's phone. Follow the supplier's instructions.**
- **If you cannot reach your gas supplier, call the fire department.**

Please study this entire manual before installation, and keep it handy for future reference.

Please refer to your appliance owner's manual for additional safety information.

A CO Safety Shutoff is not a substitute for other gas, fire or smoke alarms. This unit is designed to detect CO from any source of combustion; however, it will indicate the presence of CO at the sensor location only. CO gas may be present in other areas of the building undetectable by your unit. For better protection, install a CO detector as recommended by the Consumer Product Safety Commission (CPSC).

This device may not activate at low CO levels. The Occupational Safety and Health Association (OSHA) has established that continuous exposure to levels of 50 ppm should not be exceeded in an 8-hour period. This detector will respond to CO concentrations of 50 ppm or greater. Individuals with medical problems may consider using detection devices with lower CO detection capabilities.

Never spray the unit with water or cleaning solutions of any kind. They may damage the detector. Ventilate the area where unit is installed when household cleaning supplies or similar contaminants are used. Do not paint the unit.

Test your detector at least once a week during periods of operation. Manufacturer recommends replacement of detector six years after date of purchase.

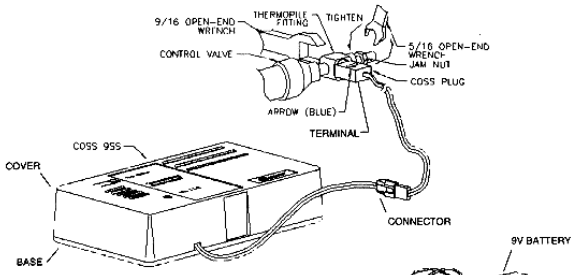

Figure 1

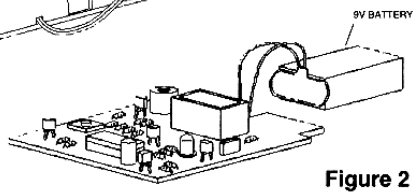

Figure 2

A. INSTALLATION

CAUTION: Before installing your carbon monoxide safety shutoff product, review your appliance owner's manual for the location of the cast control valve and the thermocouple.

1. Disconnect the thermocouple from the control valve on your gas appliance.
2. Thread the thermocouple interrupter provided into the thermocouple inlet of the control valve until it just bottoms out in the valve. DO NOT OVERTIGHTEN. (Figure 1)
3. Insert the terminal connections at the end of the FET assembly into the contacts of the thermocouple interrupter with the arrow on the FET assembly pointing toward the control valve. (Figure 1)
4. Thread the thermocouple into the rear of the thermocouple interrupter and tighten.
5. Remove the COSS unit from the sealed bag.
6. Remove the plastic cover of the unit from its base.
7. Locate your unit on any wall, ceiling, or other smooth surface within cord's reach (approx. 6 ft.) of the appliance. Connect the COSS plug wire to the detector.
8. Connect the 9-volt battery as shown in Figure 2.
9. Re-attach the cover back onto its case.

WARNING: Do not run the unit behind heavy draperies or furniture, within 5-feet of any cooking appliance or in direct sunlight.

B. OPERATION

CONDITION	RED L.E.D.	BEEPER
Normal	Flash every 30 seconds	No Beep
Low Battery	Flash every 30 seconds	Beep every 30 seconds
Fault Condition	2 flashes every 30 seconds	2 beeps every 30 seconds
Shut Off	2 flashes every 30 seconds	Double Beep every 3 seconds

TESTING THE SYSTEM:
Push and hold the test button until "beep" is heard, then release button. All functions are tested for correct operation. At the end of the test, the unit will sound a three second test confirmation "beep" and assume normal operation. Appliance will shut down following normal test operation**. Appliance must be re-lit to restore function.**
WARNING: Abnormal test function will result in appliance not being shut down. Cause for abnormal test must be investigated.

NORMAL OPERATION:

Once the unit is installed and operating, the red L.E.D. will flash once every 30-seconds.

LOW-BATTERY WARNING:
When the battery becomes weak, the red L.E.D. will flash, and sound a "beep" once every 30-seconds. The battery needs to be replaced immediately.

FAULT CONDITION:
Periodically, the unit measurement circuit is self-tested. If an error is detected, the L.E.D. will flash and beeper will sound **twice** every 30-seconds. This indicates a circuit malfunction, and the unit should be service immediately.

APPLIANCE SHUT DOWN:
If the unit measures an unsafe level of CO, it will shut down the appliance.

IF COSS IS ACTIVATED:
1. Get fresh air into the premises immediately.
2. Call a qualified technician to inspect the appliance and venting systems and adjust, repair or replace as necessary.

NOTE: *The appliance cannot be restarted until CO dissipates and the danger is eliminated.*

REPLACING THE BATTERY:
1. Remove the plastic cover of the CO Safety Shutoff from the base.
2. Remove the battery and replace it with the new one. (Figure 2)
3. Re-attach cover.
4. Test CO Safety Shutoff for proper operation as described above by pushing test button. Repeat weekly.

Use on the following 9-volt alkaline batteries for replacement:
Eveready 522; Duracell MN 1604; Gold Peak 1604A

TO CLEAN:
Use a vacuum cleaner to remove dust build-up and any cobwebs from the slots in the plastic cover and base. DO NOT WASH!

OPERATING TEMPERATURE RANGE:
32° F to 125° F

SERVICE AND WARRANTY
If, after reviewing this manual, you feel that your CO detector is defective in any way, do not tamper with the unit. Contact the manufacturer, Quantum Group Inc., to receive a return material authorization number (RMA). Once the RMA number is given, you should return the product with the RMA number on the outside of the packaging to:

QUANTUM GROUP INC.
7737 Kenamar Court
San Diego, CA 92121-2425
Or call us toll free 1-800-432-5599
E-mail address: CustomerService@QGinc.com

LIMITED WARRANTY
COSTAR® Model 9SS, Manufactured by Quantum Group Inc.

Quantum Group Inc. offers you this limited warranty on your new carbon monoxide detector, including all of its component parts. This limited warranty extends solely to the original end-user purchaser of this product, provided your purchase was made from an authorized vendor. Transfer or resale of this product will automatically terminate warranty coverage.

Quantum Group Inc. warrants the enclosed carbon monoxide alarm to be free from defects in materials and workmanship under authorized use and service, as specified in the owner's manual, for a period of six (6) years from the date of purchase. During the initial one (1) year period commencing with the date of purchase, any repair or replacement shall be made without charge with proof of purchase. During the latter five (5) years of the warranty period, any repair or replacement shall be made at a charge to the purchaser not to exceed the manufacturer's cost of repair or replacement. All replaced items become the property of Quantum Group Inc.

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This limited warranty does not cover: (1) 9 volt alkaline battery (when applicable); (2) products which have been improperly installed, repaired, maintained, modified, or which have been subjected to misuse, abuse, accident, neglect, exposure to fire, water, or excessive changes in climate or temperature, or combined with non-Quantum Group Inc.-approved accessories; (2) physical damage caused from use other than normal and proper operation or handling, as specified in the owner's manual; (3) cosmetic damage; (4) products on which warranty stickers or product serial numbers have been removed, altered, or rendered illegible; (5) the cost of installation, removal or reinstallation.

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